

## 1 Watt, Surface Mount Miniature DC-DC Converter

**SMD SERIES :** PSD-xxxxD 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT

**Available Inputs: 5 and 12 VDC**

Other Input Version May Be Available, Please Enquire.

**Available Dual Outputs: Dual (+/-) 5, 9, 12 and 15 VDC**

Other Output Versions May Be Available, Please Enquire.

**Electrical Specifications**

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

**Input Specifications**

Voltage range	Nominal Voltage +/- 10 %
Filter	Capacitors

**Isolation Specifications**

Rated voltage	1000 VDC
Resistance	1000 MOhm

**Output Specifications**

Voltage accuracy	+/- 5 %, max.
Ripple and noise (at 20 MHz BW)	50 mV p-p, max.
Short circuit protection	Momentary
Line voltage regulation	+/- 1.2 % / 1.0 % of Vin
Load voltage regulation	+/- 12 %, load = 20 ~ 100 % max.
Temperature coefficient	+/- 0.02 % / °C

**General Specifications**

Efficiency	70 - 83 %
Switching frequency	100 KHz, typ.

**Environmental Specifications**

Operating temperature (ambient)	- 40° C to + 85° C
Storage temperature	- 55 °C to + 125 °C
Derating Above 85°C	Linear to Zero at 100°C
Humidity	Up to 90 %, non condensing
Cooling	Free air convection

**Physical Characteristics**

Case material	Non conductive black plastic
Lead temp. 1.5 mm from case for 10 sec.	+300° C
Peak reflow temp. with CECC 00802 profile	+280° C

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# ALL PSU DATA SHEET.

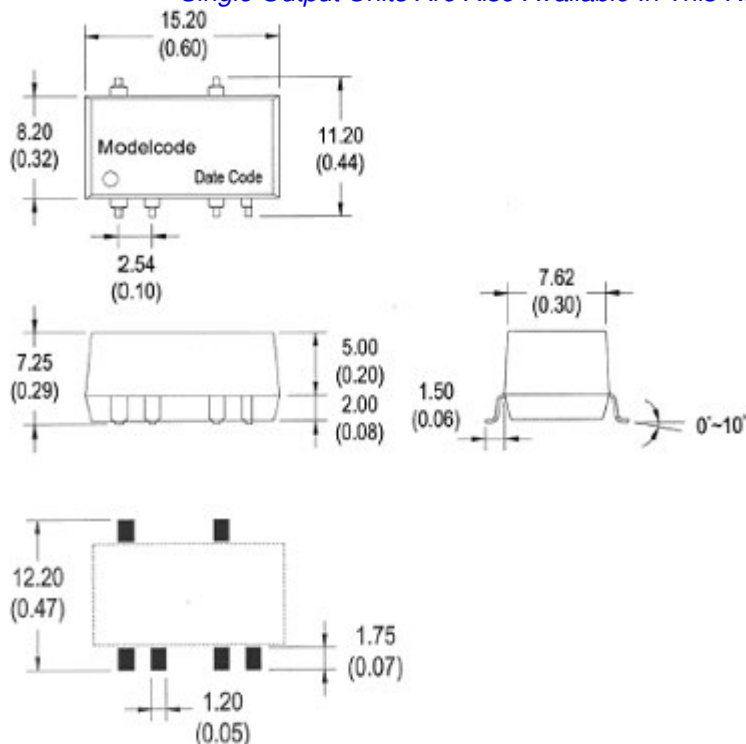
## Cont.....1 Watt, Surface Mount Miniature DC-DC Converter

**SMD SERIES : PSD-XXXXD 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT**

**Part Numbers ( Non standard versions may be available )**

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PSD-0505D	5	281	+/- 5	+/- 100	71
PSD-0509D	5	256	+/- 9	+/- 56	78
PSD-0512D	5	258	+/- 12	+/- 42	78
PSD-0515D	5	252	+/- 15	+/- 34	81
PSD-1205D	12	114	+/- 5	+/- 100	73
PSD-1209D	12	106	+/- 9	+/- 56	79
PSD-1212D	12	104	+/- 12	+/- 42	81
PSD-1215D	12	103	+/- 15	+/- 34	83

*Single Output Units Are Also Available In This Range*



\* Further DC-DC Converters Are Available From 0.5 ~ 2400 Watts.

\* Please See Our Web site at [www.allpsu.co.uk](http://www.allpsu.co.uk) For Details

\* Please Contact ALL PSU Sales Office For Any Further Information Required, including details of alternative Pin-Out options.

\* Specifications May Change Without Notice, E&OE, ALL PSU Terms And Conditions Apply

Pin #	Connection
1	- V Input
3	+ V Input
7	Common
9	- V Output
12	+ V Output
18	NC

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